

## GENETIC ALTERATIONS RELATED TO FAMILIAL ALZHEIMER'S DISEASE

### ABSTRACT OF THE DISCLOSURE

Isolated nucleic acid molecules are provided encoding human PS1 gene products. Mutant PS1 polypeptides are also provided, as are vectors, host cells and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists and antagonists of the activity of the PS1 polypeptide and mutants thereof. Also provided are diagnostic methods for detecting Alzheimer's disease and therapeutic methods for treating the same.

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